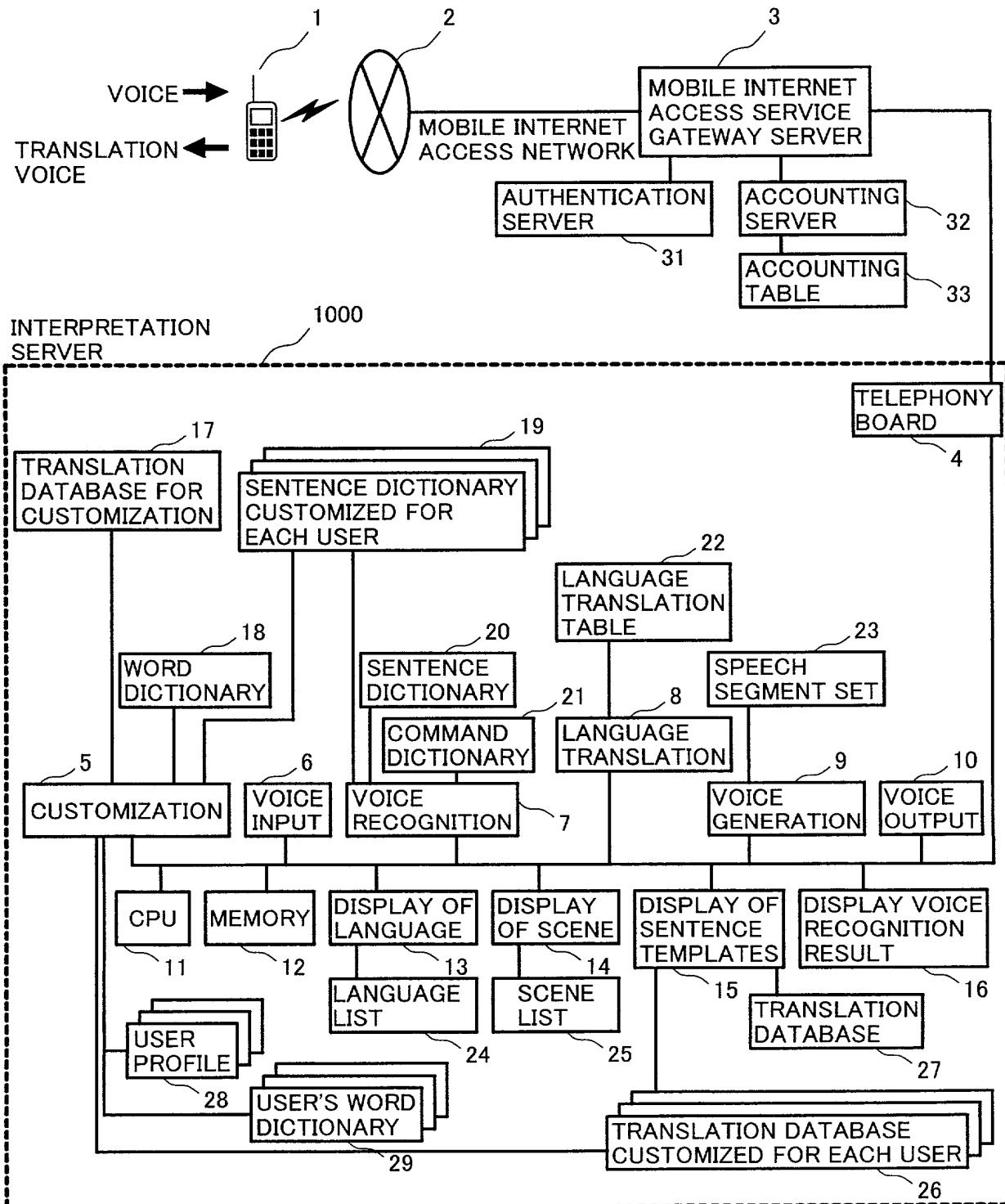


FIG. 1



# FIG.2

201	WAVE
202	CSTRING
203	JAPANESE
204	ICNT
205	RECOGS(1)
	RECOGPNUM(1)
	RECOGSNUM(1)
	:
	RECOGS(N)
	RECOGPNUM(N)
	RECOGSNUM(N)
206	RESULT
207	SYNWAVE
208	JCNT
209	LANG
210	SCENE
211	BSENTENCE
212	CSENTENCE
213	PCAND
214	SCAND
215	INDEX
	:

FIG. 3

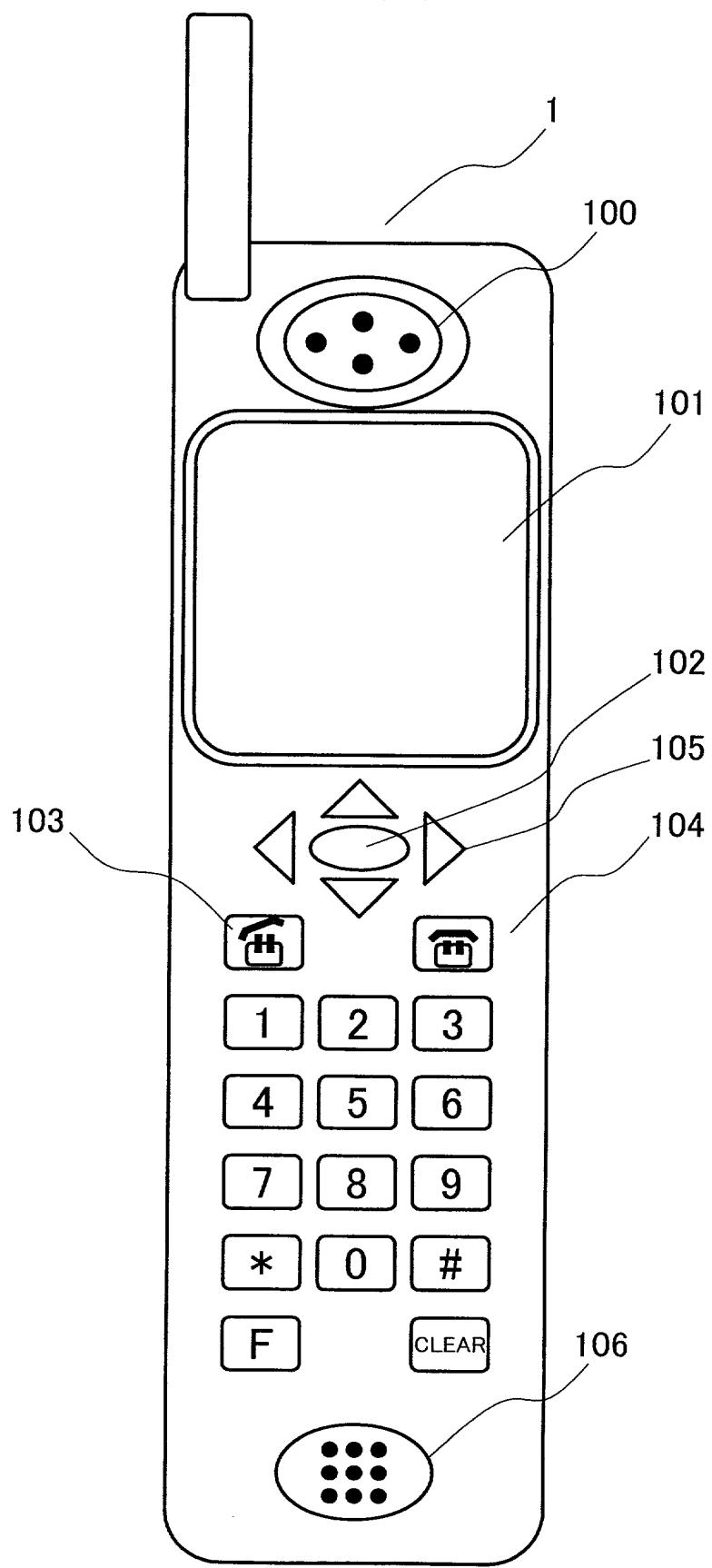


FIG.4

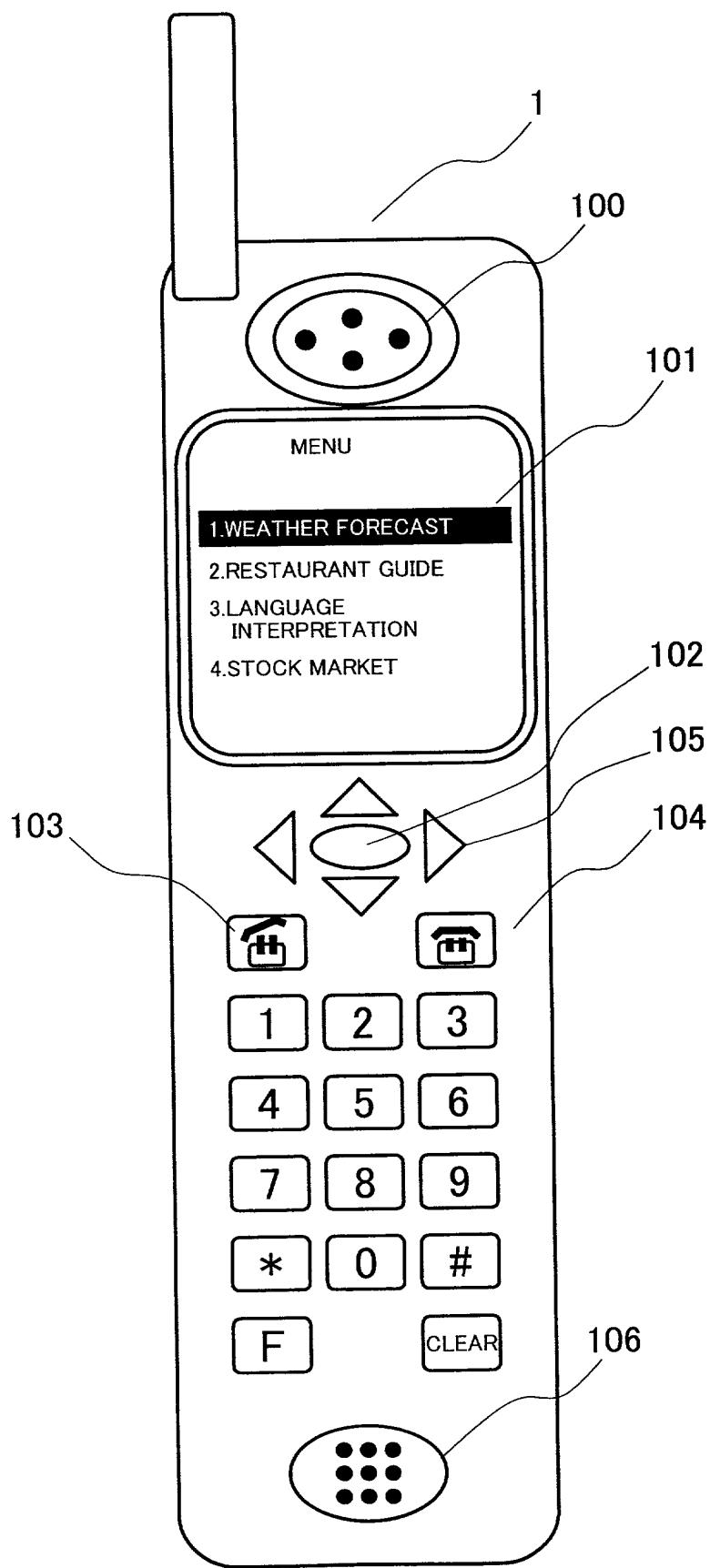


FIG.5

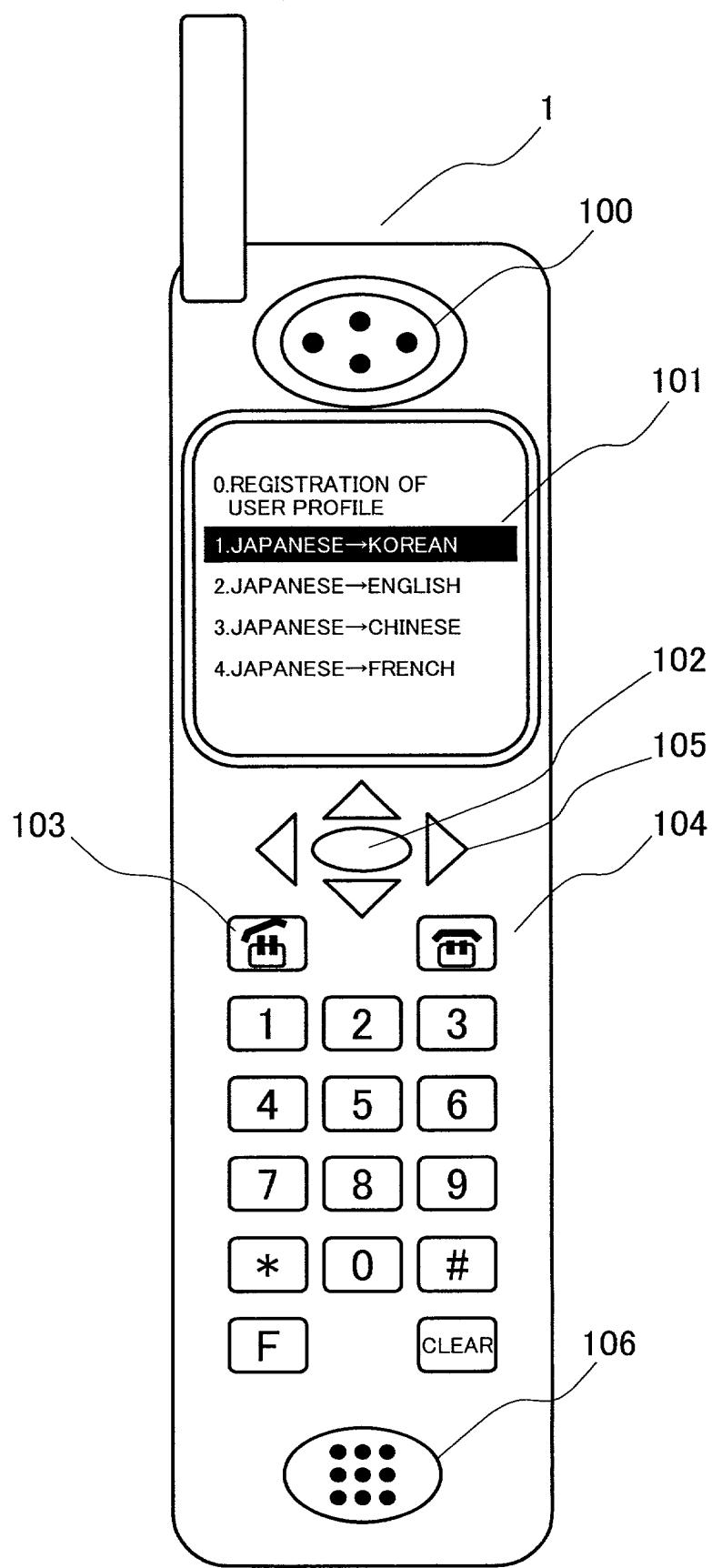
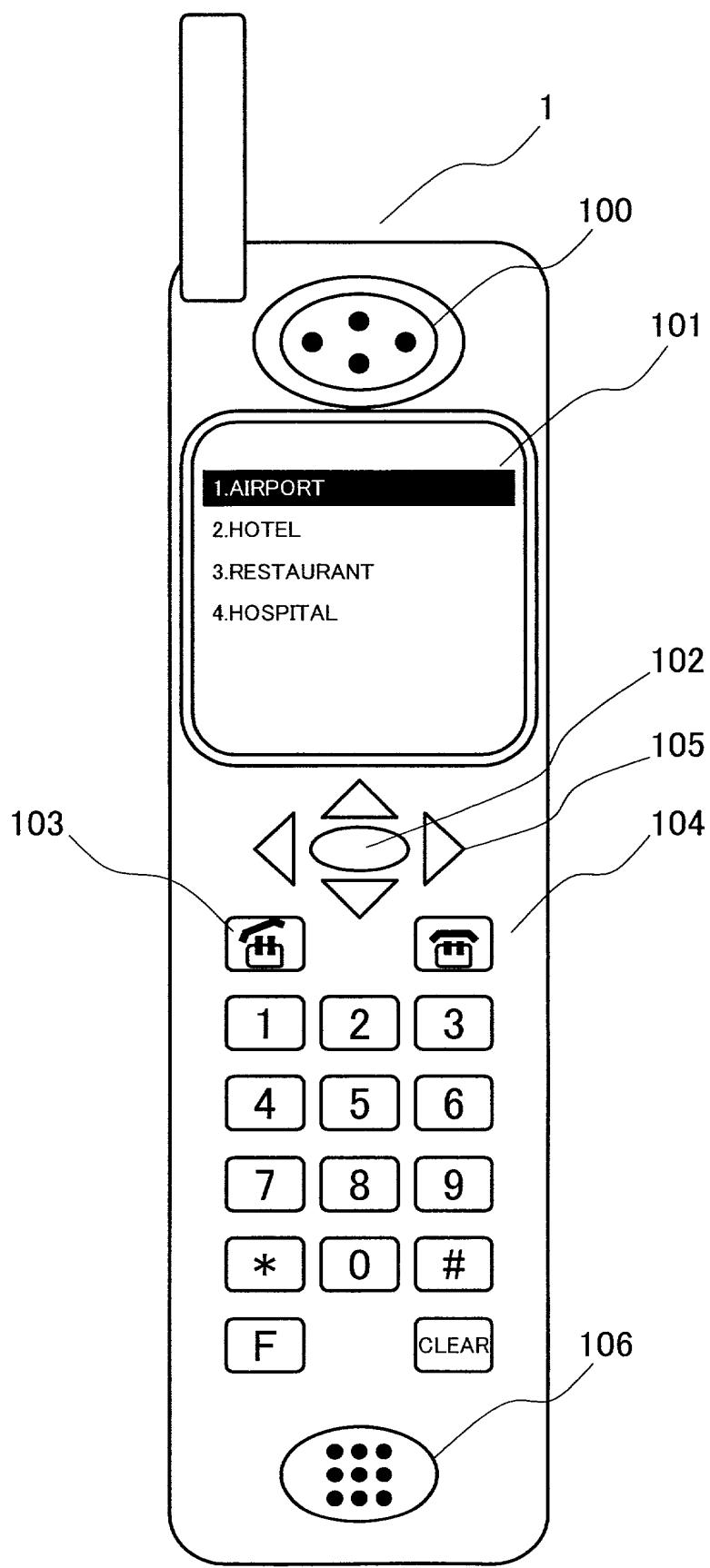
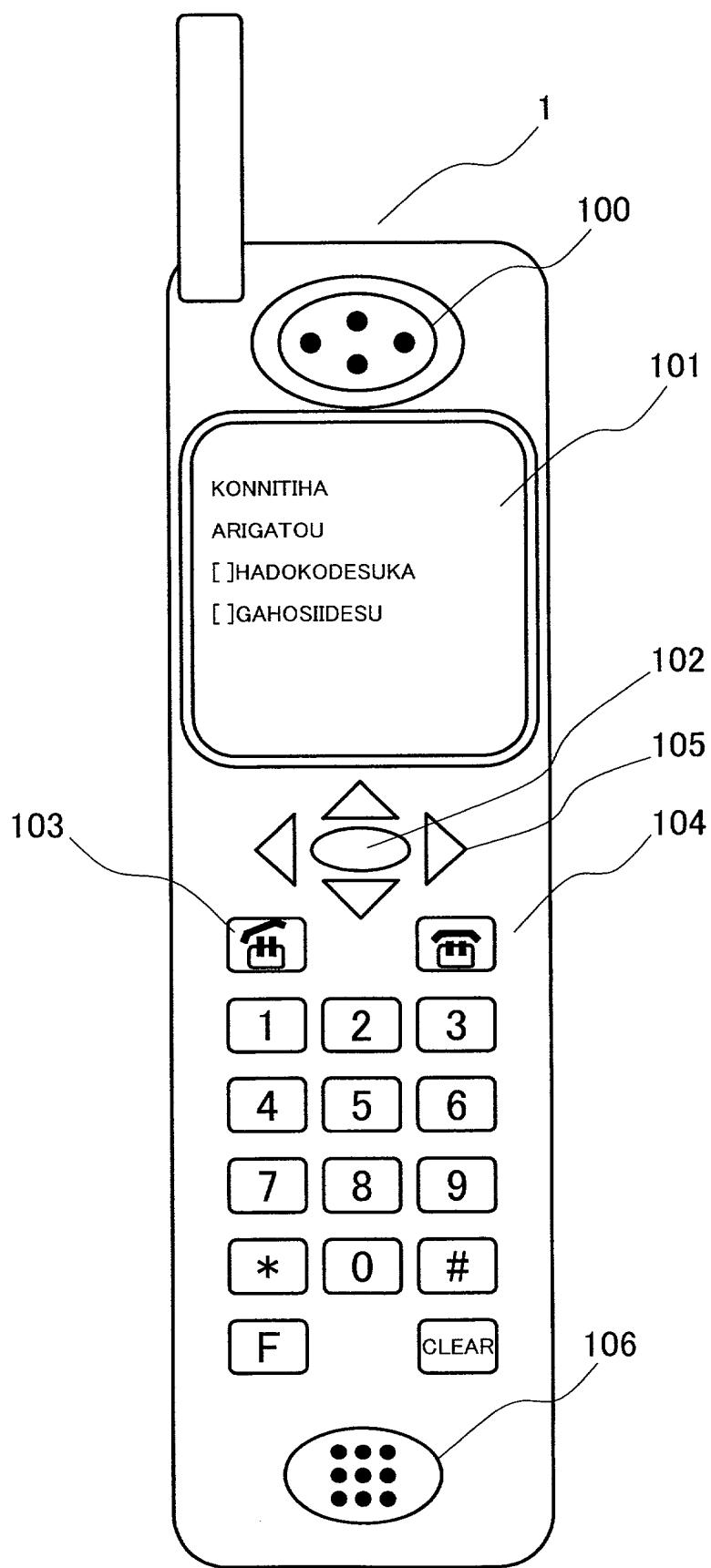


FIG.6



**FIG. 7**



**FIG.8**

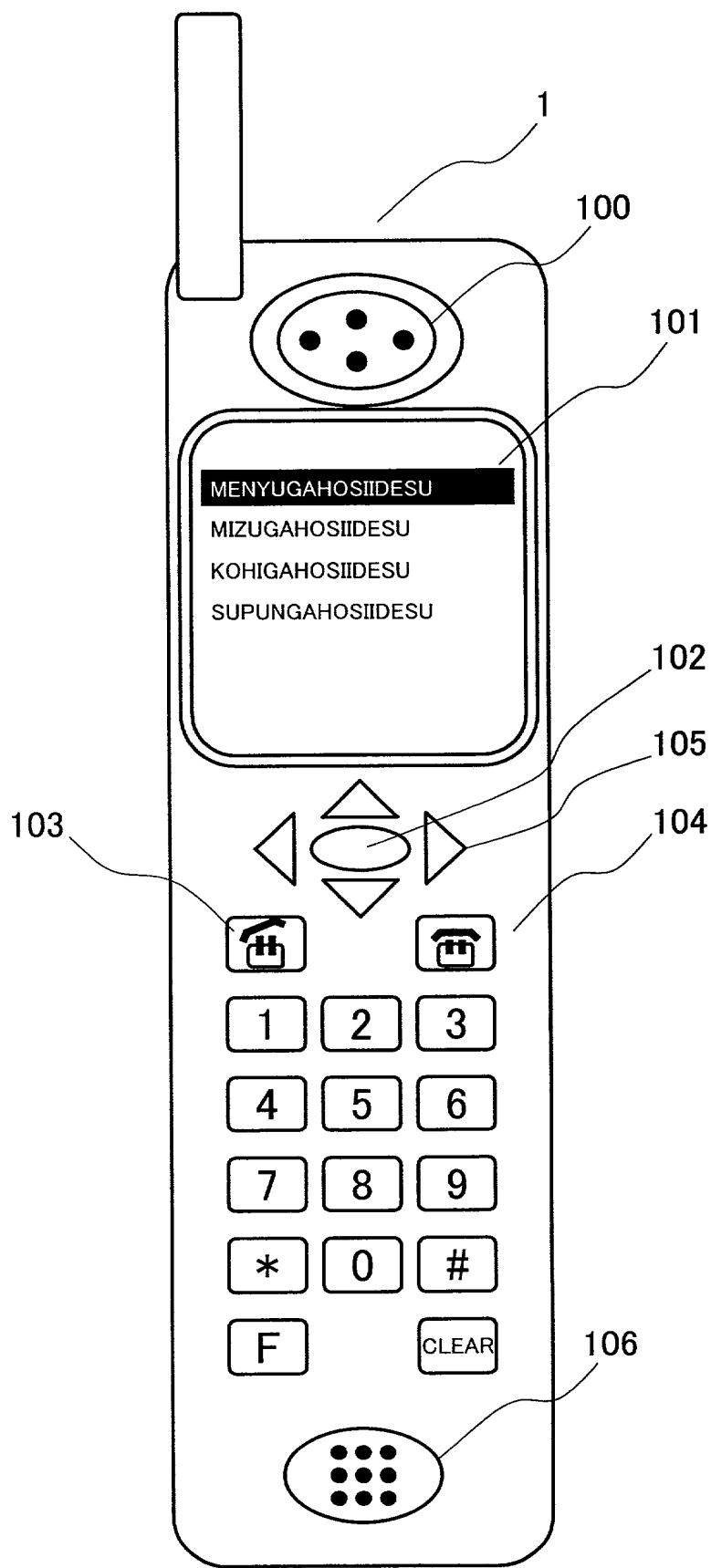


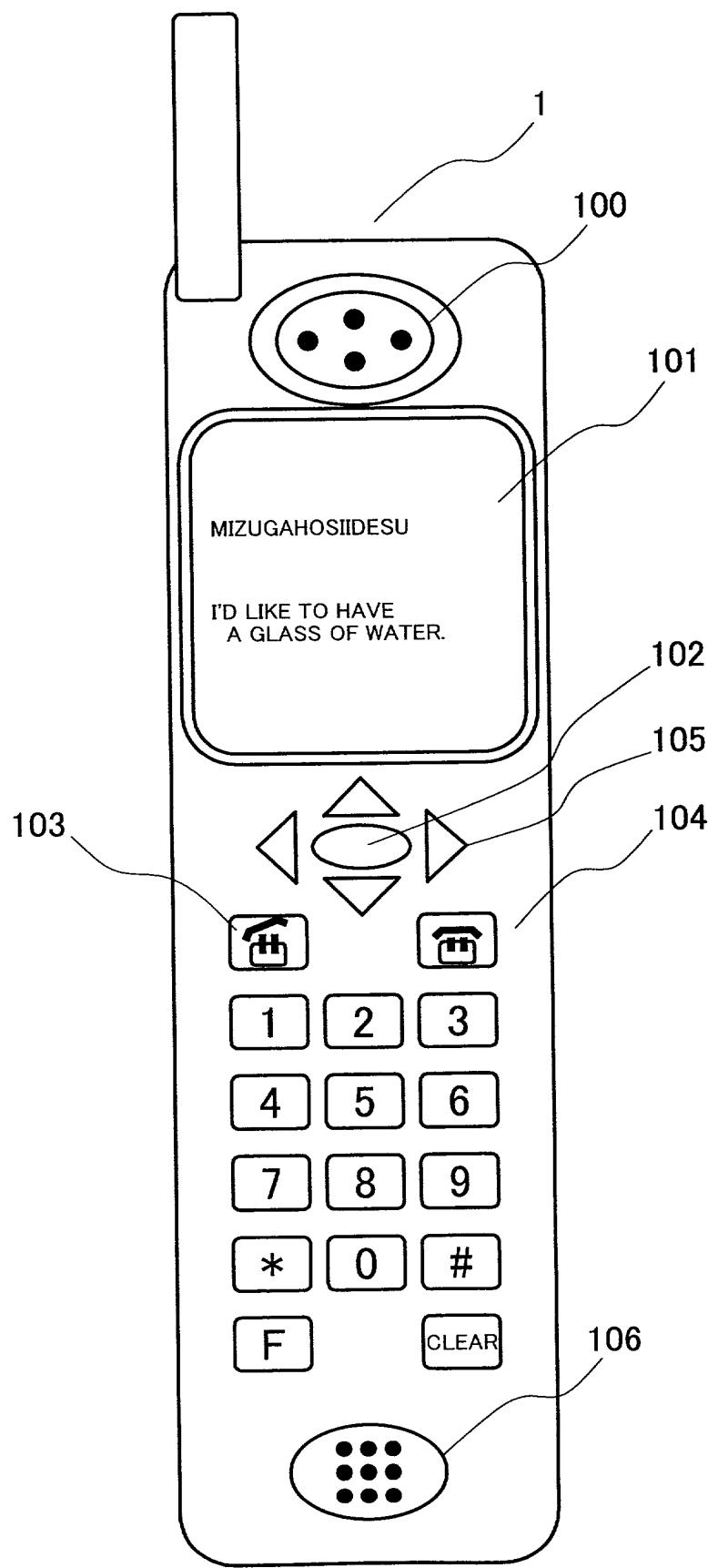
FIG. 9

SENTENCE TEMPLATE NUMBER	SENTENCE NUMBER	TRANSLATION	
		1	2
2201	3004	...	I'D LIKE TO HAVE A GLASS OF WATER.
2202	3004	...	CAN I SEE THE MENU?
2203	3004	...	I'D LIKE TO HAVE A CUP OF COFFEE.
2204	3004	...	I'D LIKE TO HAVE A SPOON.
:	:	:	:

2211      2212      2213

2201      2202      2203      2204

FIG. 10



# FIG.11

USER ID	CHARGE
:	:
1234	100
1235	0
1236	300
1237	850
:	:

# FIG.12

LANGUAGE NUMBER	LANGUAGE
1	JAPANESE→KOREAN
2	JAPANESE→ENGLISH
3	JAPANESE→CHINESE
4	JAPANESE→FRENCH
:	

# FIG.13

SCENE NUMBER	SCENE
1	AIRPORT
2	HOTEL
3	RESTAURANT
4	HOSPITAL

# FIG.14

SCENE NUMBER	SENTENCE TEMPLATE NUMBER	SENTENCE TEMPLATE
1	1001	[ ]HADOKODESUKA?
:	:	
3	3001	KONNITIHA
3	3002	ARIGATOU
3	3003	[ ]HADOKODESUKA?
3	3004	[ ]GAHOSIIDESU
3	3005	[ ]HAARIMASUKA?
:	:	

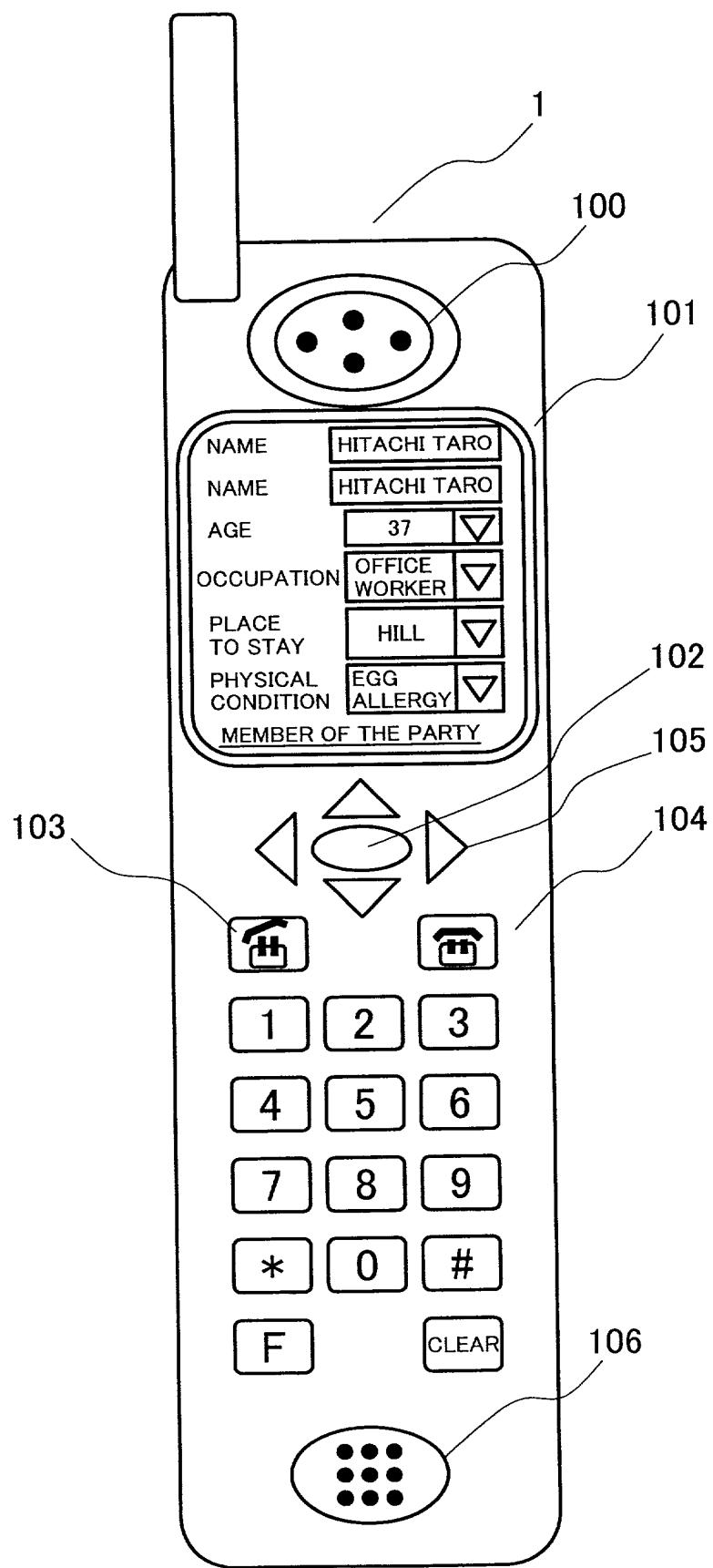
# FIG.15

	2011	2012	2013	2014
	SENTENCE TEMPLATE NUMBER	SENTENCE NUMBER	SENTENCE	TIME SERIES FEATURE VECTORS
2001	1001	1001001	KONNITIHA	A11,A12,...
2002	1002	1001001	ARIGATOU	A21,A22,...
	:	:	:	:
2003	3004	3004001	MIZUGAHOSIIDESU	A31,A32,...
2004	3004	3004002	MENYUGAHOSIIDESU	A41,A42,...
2005	3004	3004003	KOHIGAHOSIIDESU	A51,A52,...
2006	3004	3004004	SUPUNGAHOSIIDESU	A61,A62,...
	:	:	:	:

# FIG.16

	2111	2112	2113
	COMMAND NUMBER	COMMAND	TIME SERIES FEATURE VECTORS
2101	1	OK	B11,B12,...
2102	2	NEXT	B21,B22,...
2103	3	QUIT	:
	:		B31,B32,...

FIG.17



# FIG.18

NAME	HITACHI	TARO	HITACHI	TARO
AGE/SEX	37	MALE		
OCCUPATION	OFFICE WORKER			
DESTINATION	MIAMI			
PLACE TO STAY	FEBRUARY 12	FEBRUARY 17	HILL	HILL
FLIGHT NUMBER				
PHYSICAL CONDITION	EGG ALLERGY			
FOOD LIST	STONE CRAB	OYSTER	KEY LIME PIE	
SHOPPING LIST				
:				
MEMBER OF THE PARTY	2			
:				
NAME	HITACHI	KOTARO		
AGE/SEX	11 MONTH	MALE		

**FIG. 19**

SCENE NUMBER	SENTENCE TEMPLATE NUMBER	SENTENCE TEMPLATE	SLOT	SELECTION CONDITION FOR SENTENCE TEMPLATE	TRANSLATION TEMPLATE	GRAMMATICAL INFORMATION FOR SLOTS	PRONUNCIATION INFORMATION FOR SENTENCE TEMPLATE
1701	1001	[ ]HADOKO DESUKA?	<LOCATION>		WHERE IS [ ]?		[ ]HADOKO DESUKA?
1702	1	1002	KONO BASU HA [ ] NI IKIMASUKA?	<LOCATION>	DOES THIS BUS GO TO [ ]?		KONO BASU HA [ ] THE IKIMASUKA?
	:						
1703	3	3004	[ ]GAHOSU DESU	<FOOD>	I'D LIKE [ ].	PLURAL FORM OF COUNTABLE NOUN SINGULAR FORM OF UNCOUNTABLE NOUN	[ ]GAHOSU DESU
1704	3	3005	[ ]HA ARIMASUKA?	<FOOD>	DO YOU HAVE [ ]?	PLURAL FORM OF COUNTABLE NOUN SINGULAR FORM OF UNCOUNTABLE NOUN	[ ]HA ARIMASUKA?
1705	3	3006	[ ]ARERUGI DESU	<FOOD>	I'M ALLERGIC TO [ ].	PLURAL FORM OF COUNTABLE NOUN SINGULAR FORM OF UNCOUNTABLE NOUN	[ ]ARERUGI DESU
	:						
1706	4	4003	[ ]GA HIKITUKEW OOKOSIMASITA		MEMBER OF THE PARTY <INFANT>	[ ] HAS GONE INTO CONVULSIONS.	[ ]GA HIKITUKEW OOKOSIMASITA
1707	4	4004	KOUKETUATU DESU		PHYSICAL CONDITION < HIGH BLOOD PRESSURE.	I HAVE HIGH BLOOD PRESSURE.	KOUKETUATU DESU

FIG. 20

1811	KAKI	KAKI	KAKI	COMMON NOUN	<FOOD> <LIVING THING>	OYSTER	XCISTXER	COMMON NOUN; COUNTABLE; -S; BEGINNING WITH VOWEL
1812	:	:	:	:	:	:	:	
1813	HIRU	HIRU	PROPER NOUN	<HOTEL>	HILL HOTEL	HILU HOUTEL	PROPER NOUN; UNCOUNTABLE; DEFINITE ARTICLE; CONSONANT	
1814	HOTERU	HOTERU						
1815	:	:	:	:	:	:	:	
1816	SUTON	SUTON	COMMON NOUN	<FOOD> <LIVING THING>	STONE CRAB	STOUN KRAEB	COMMON NOUN; COUNTABLE; -S; BEGINNING WITH CONSONANT	
1817	KURABU	KURABU						
1818	:	:	:	:	:	:	:	
	<HOTEL>		CATEGORY	<PLACE> <BUILDING> <AGENCY>				
	<FOOD>		CATEGORY	<CONCRETE OBJECT>				

FIG.21

2911	KAKI	KAKI	COMMON NOUN	<FOOD> <LIVING THING>	OYSTER	XCISTXER	COMMON NOUN; COUNTABLE; -S; BEGINNING WITH VOWEL
2912	:	:	:	:	:	:	:
2913	HIRU	HOTERU	PROPER NOUN	<HOTEL>	HILL HOTEL	HILU HOUTEL	PROPER NOUN; UNCOUNTABLE; DEFINITE ARTICLE; CONSONANT
2914	:	:	:	:	:	:	:
2915	SUTON KURABU	SUTON KURABU	COMMON NOUN	<FOOD> <LIVING THING>	STONE CRAB	STOUN KRAEB	COMMON NOUN; COUNTABLE; -S; BEGINNING WITH CONSONANT
2916	:	:	:	:	:	:	:
2917	<HOTEL>		CATEGORY	<PLACE> <BUILDING> <AGENCY>			
2918	<FOOD>		CATEGORY	<CONCRETE OBJECT>			

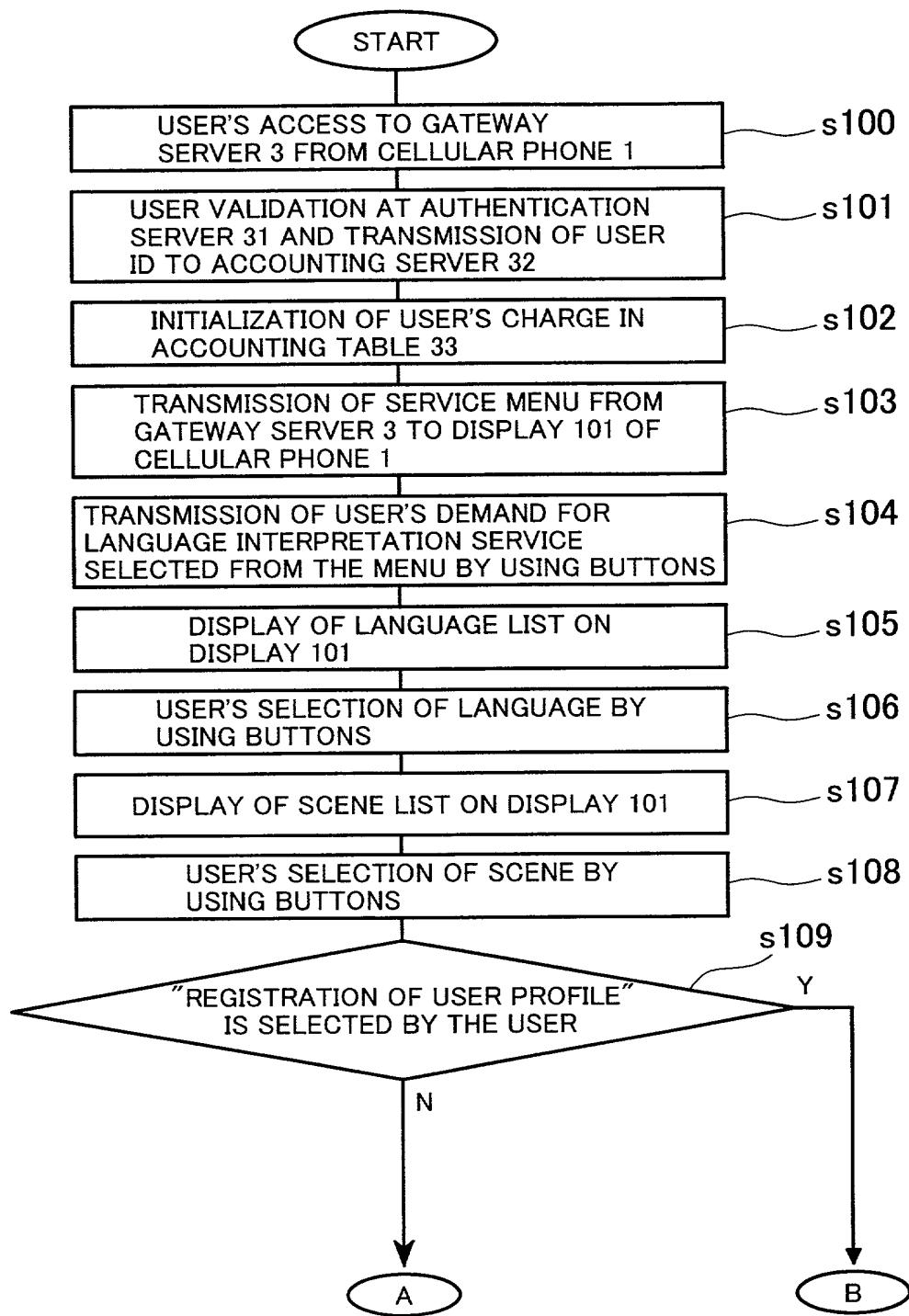
# FIG.22

	SCENE NUMBER	SENTENCE TEMPLATE NUMBER	SENTENCE TEMPLATE	SLOT
2601	1	1001	[ ]HADOKODESUKA?	HILL HOTEL
2602	1	1002	KONOBASUHA[ ]NI IKIMASUKA?	HILL HOTEL
2603	:	:		
2604	3	3004	[ ]GAHOSIIDESU	STONE CRAB; OYSTER
2605	3	3005	[ ]HAARIMASUKA?	STONE CRAB; OYSTER
2606	3	3006	[ ]ARERUGIDESU	EGG
	:			
	4	4003	[ ]GAHIKITUKEWO OKOSIMASITA	SON
	:			

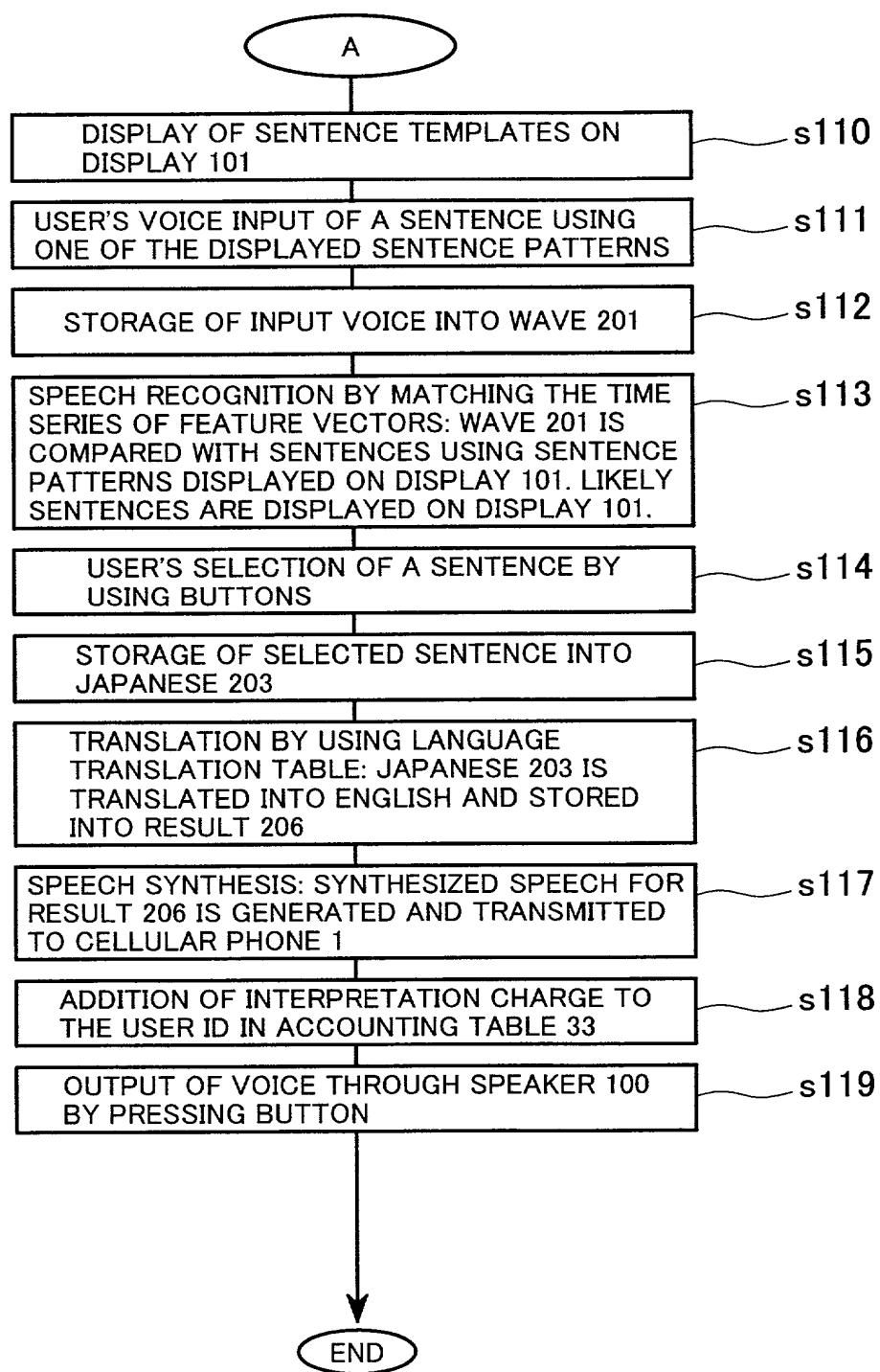
# FIG.23

	1911	1912	1913	1914
1901	SENTENCE TEMPLATE NUMBER	SENTENCE NUMBER	SENTENCE	TIME SERIES OF FEATURE VECTORS
1902	1001	1001001	HIRUHOTERUHA DOKODESUKA?	A11,A12,...
1903	1002	1002001	KONOBASUHAHIRU HOTERUNIIKIMASUKA?	A21,A22,...
1904	:	:	:	:
1905	3005	3005001	SUTONKURABUHA ARIMASUKA?	A31,A32,...
1906	3005	3005002	KAKIHAARIMASUKA?	A41,A42,...
1905	3006	3006001	TAMAGOARERUGIDESU	A51,A52,...
1905	:	:	:	:
1906	4003	4003001	MUSUKOGAHIKITUKEWO OKOSIMASITA	A61,A62,...

# FIG.24



# FIG.25



# FIG.26

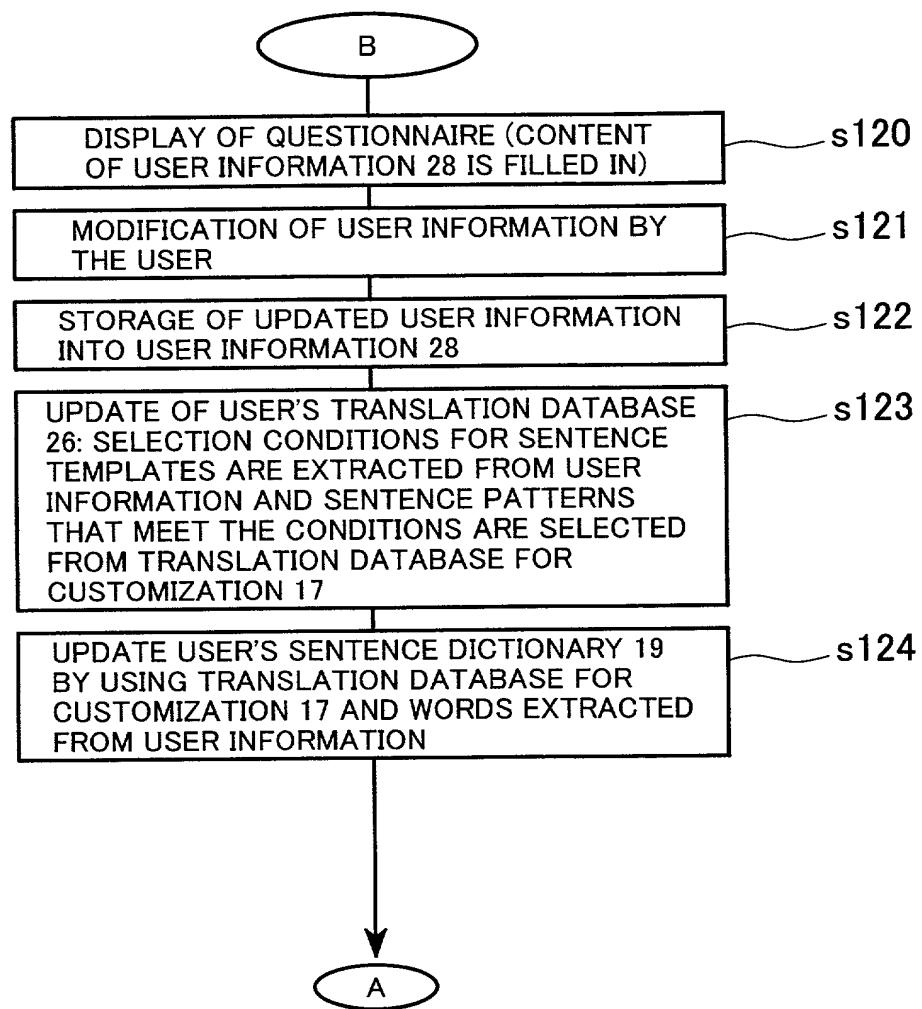
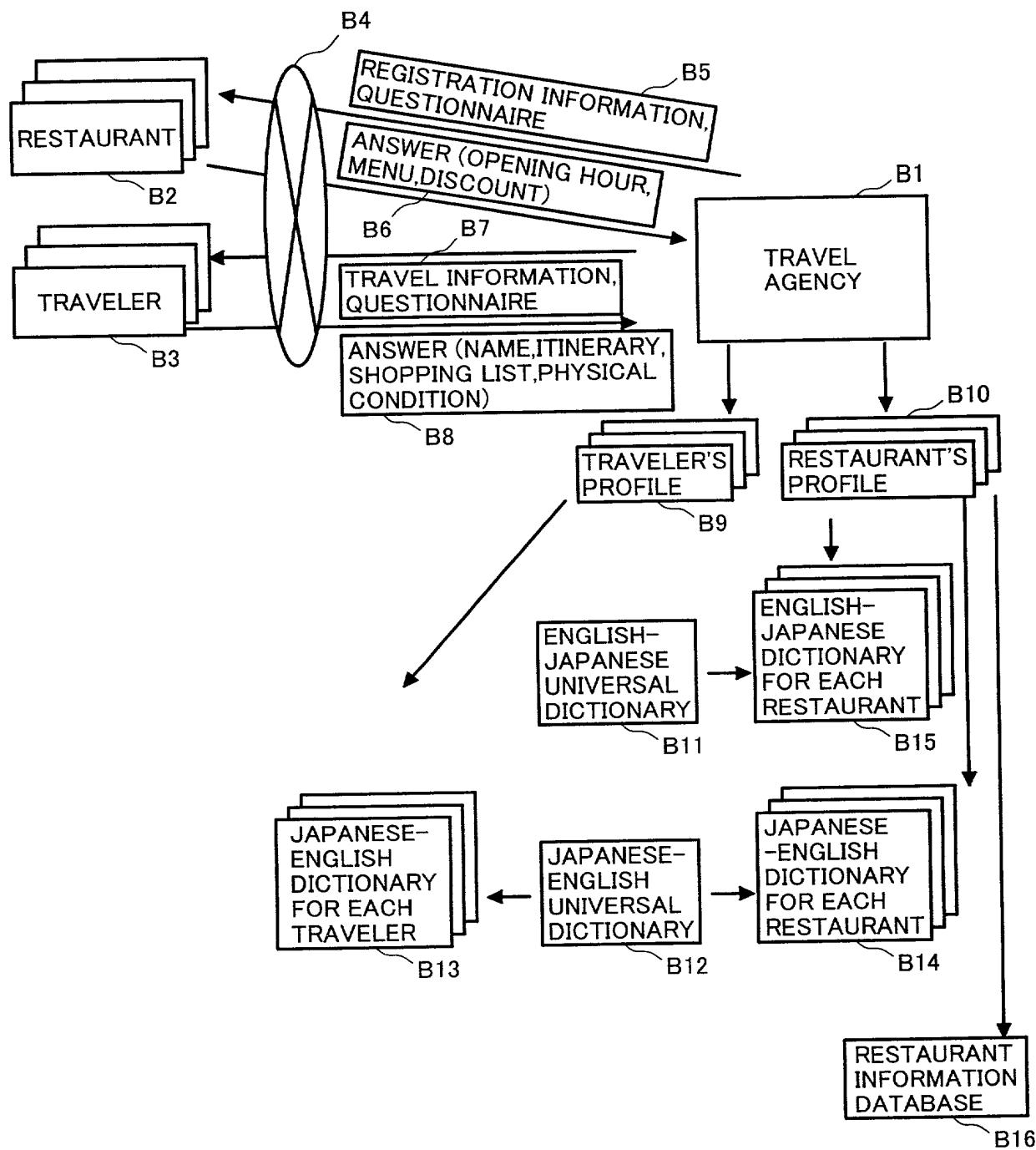


FIG.27



# FIG.28

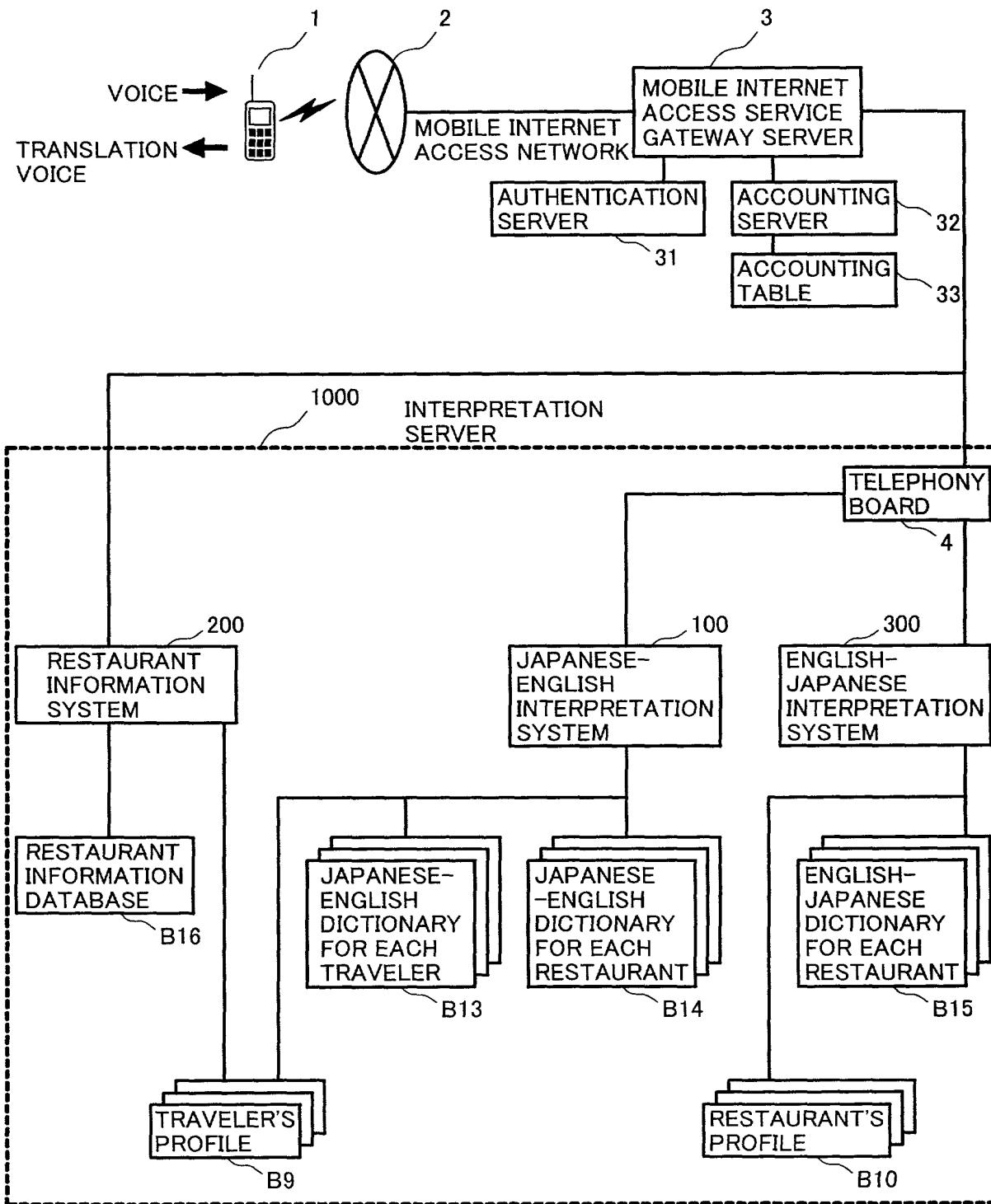


FIG.29

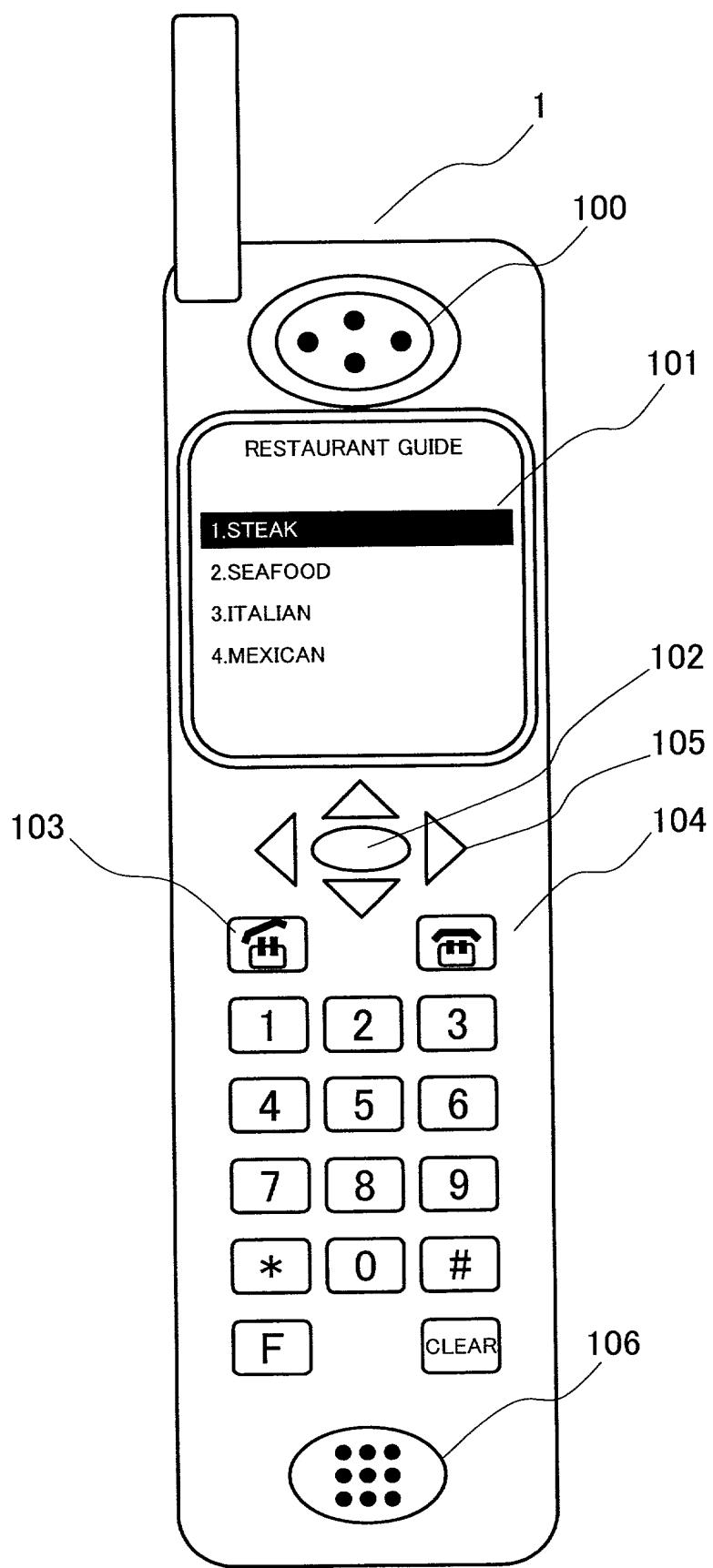


FIG.30

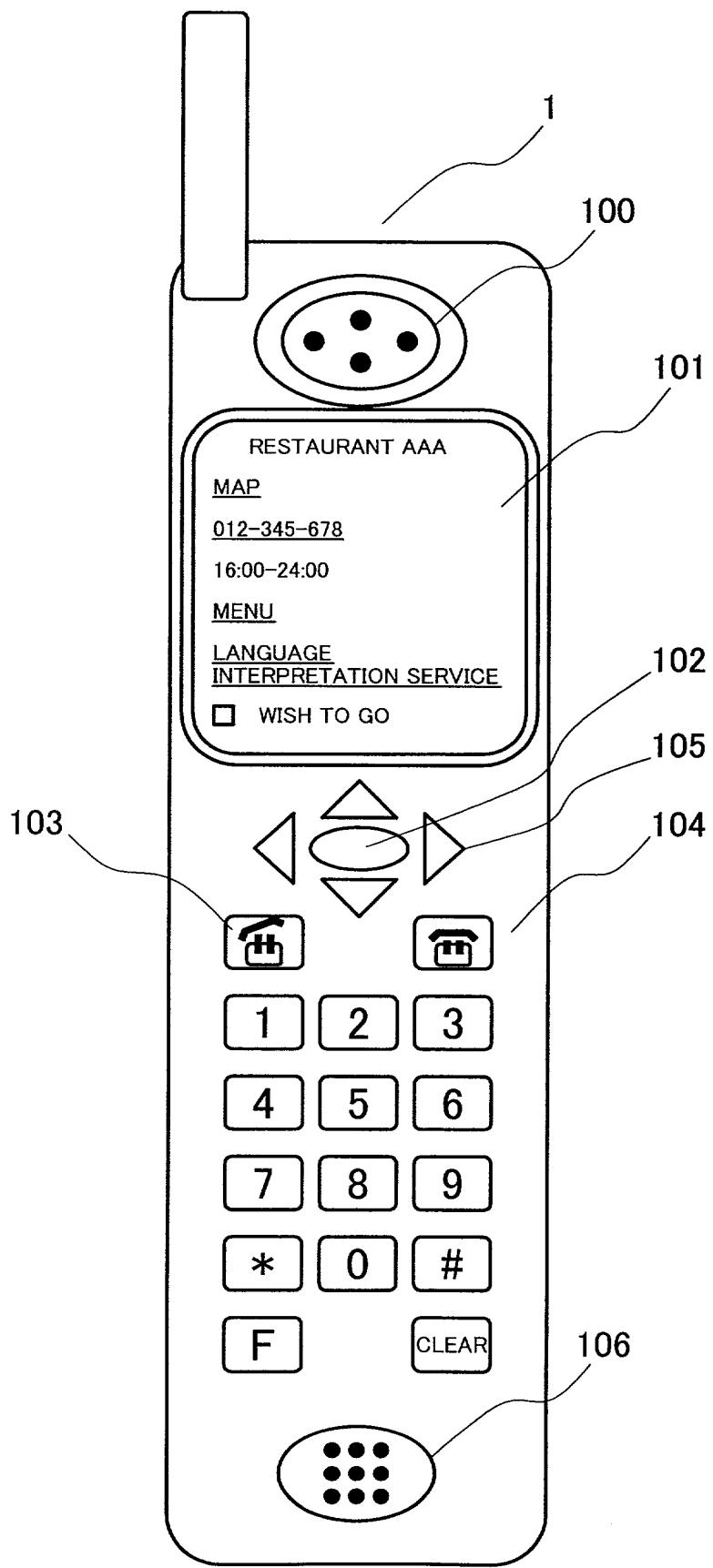


FIG.31

